

AUG 27 1982

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Docket No.: 50-395

Mr. O. W. Dixon, Jr.
Vice President Nuclear Operations
South Carolina Electric & Gas Company
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Columbia, South Carolina 29218

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Dear Mr. Dixon:

Subject: Issuance of Amendment No. 2 to Facility Operating License NPF-12
Virgil C. Summer Nuclear Station, Unit No. 1

The Nuclear Regulatory Commission has issued Amendment No. 2 to Facility Operating License NPF-12 for the Virgil C. Summer Nuclear Station, Unit No. 1 located in Fairfield County, South Carolina.

This amendment is in response to your letter dated August 13, 1982. This amendment corrects certain inconsistencies in the Technical Specifications regarding containment radiation monitors and the containment purge and exhaust isolation.

A copy of the related safety evaluation supporting Amendment No. 2 to Facility Operating License NPF-12 is enclosed. Also enclosed is a copy of a related notice which has been forwarded to the Office of the Federal Register for publication.

Sincerely,

Original signed by:
William Kane

/for

B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

Enclosures:

- 1. Amendment No. 2
- 2. Safety Evaluation
- 3. Federal Register Notice

cc w/enclosure:
See next page

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OFFICE	DL:LB#1	DL:LB#1	DL:LB#1	OELD			
SURNAME	MRushbrook/yt	WKane	JYoungblood	61203612			
DATE	8/25/82	8/25/82	8/ /82	8/25/82			

SOUTH CAROLINA ELECTRIC & GAS COMPANY

SOUTH CAROLINA PUBLIC SERVICE AUTHORITY

DOCKET NO. 50-395

VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 2
License No. NPF-12

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment to the Virgil C. Summer Nuclear Station, Unit No. 1 (the facility) Facility Operating License No. NPF-12 filed by the South Carolina Electric & Gas Company acting for itself and South Carolina Public Service Authority (the licensees), dated August 13, 1982, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations as set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the regulations of the Commission;
 - C. There is reasonable assurance: (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations set forth in 10 CFR Chapter I;
 - D. The issuance of this license amendment will not be inimical to the common defense and security or to the health and safety of the public;
 - E. The issuance of this license amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is hereby amended by page changes to the Technical Specifications as indicated in the attachments to this license amendment. Paragraph 2.C(2) of Facility Operating License No. NPF-12 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 2, are hereby incorporated into this license. South Carolina Electric & Gas Company shall operate the facility in accordance with the Technical Specifications and the Environmental

Protection Plan.

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3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by: */for*
William Kane

B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

Attachment:
Technical Specification
Changes

Date of Issuance: **AUG 27 1982**

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OFFICE ▶	DL:LB#1	DL:LB#1	DL:LB#1	OELD			
SURNAME ▶	<i>Mc</i> Rushbrook / y.t.	<i>W Kane</i> Kane	<i>J Youngblood</i> Youngblood	<i>Youngblood</i> Youngblood			
DATE ▶	8/27/82	8/25/82	8/27/82	8/25/82			

REFUELING OPERATIONS

3/4.9.9 WATER LEVEL - REFUELING CAVITY AND FUEL TRANSFER CANAL

LIMITING CONDITION FOR OPERATION

3.9.9 At least 23 feet of water shall be maintained over the top of the reactor pressure vessel flange.

APPLICABILITY: During movement of fuel assemblies or control rods within the reactor pressure vessel or the refueling cavity when either the fuel assemblies being moved or the fuel assemblies seated within the reactor pressure vessel are irradiated.

ACTION:

With the requirements of the above specification not satisfied, suspend all operations involving movement of fuel assemblies or control rods within the pressure vessel.

SURVEILLANCE REQUIREMENTS

4.9.9 The water level shall be determined to be at least its minimum required depth within 2 hours prior to the start of and at least once per 24 hours thereafter during movement of fuel assemblies or control rods.

REFUELING OPERATIONS

3/4.9.8 REACTOR BUILDING PURGE SUPPLY AND EXHAUST ISOLATION SYSTEM

LIMITING CONDITION FOR OPERATION

3.9.8 The Reactor Building Purge Supply and Exhaust Isolation System shall be OPERABLE.

APPLICABILITY: During CORE ALTERATIONS or movement of irradiated fuel within the containment.

ACTION:

With the Reactor Building Purge Supply and Exhaust Isolation System inoperable, close each of the Purge and Exhaust penetrations providing direct access from the reactor building atmosphere to the outside atmosphere. The provisions of Specification 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.9.8 The Reactor Building Purge Supply and Exhaust Isolation System shall be demonstrated OPERABLE within 100 hours prior to the start of and at least once per 7 days during CORE ALTERNATIONS by verifying that Reactor Building Purge Supply and Exhaust isolation occurs on manual initiation and on a high radiation test signal from each of the containment radiation monitoring instrumentation channels, and by verifying that isolation occurs on the 36-inch lines of the Purge Supply and Exhaust Isolation System on a high radiation test signal from the reactor building manipulator crane area channels.

TABLE 3.8-1

CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICE TEST SETPOINT CRITERIA

<u>EQUIP NO.-SYS/DESCRIPTION</u>	<u>DEVICE</u>	<u>LOCATION</u>	<u>TEST SETPOINT</u>	<u>RESPONSE TIME</u>
<u>7.2 KV Swgr.</u>				
1) XPP0030A-RC Reactor Coolant Pump A	PRIMARY	XSW1A #9	LONG TIME 3960 Amps INSTANT 5808 Amps GROUND INST. 11 Amps	< 15.75 Sec. N/A N/A
BUS1A Normal Feed	BACKUP	XSW1A #5	LONG TIME 5544 Amps	< 15.33 Sec.
BUS1A Emergency Feed	BACKUP	XSW1A #3	LONG TIME 5544 Amps	≤ 15.33 Sec.
2) XPP0030B-RC Reactor Coolant Pump B	PRIMARY	XSW1B #7	LONG TIME 3690 Amps INSTANT 5808 Amps GROUND INST. 11 Amps	< 15.75 Sec. N/A N/A
BUS1B Normal Feed	BACKUP	XSW1B #5	LONG TIME 5544 Amps	< 15.33 Sec.
BUS1B Emergency Feed	BACKUP	XSW1B #3	LONG TIME 5544 Amps	≤ 15.33 Sec.
3) XPP0030C-RC Reactor Coolant Pump C	PRIMARY	XSW1C #3	LONG TIME 3960 Amps INSTANT 5808 Amps GROUND INST. 11 Amps	< 15.75 Sec. N/A N/A
BUS1C Normal Feed	BACKUP	XSW1C #9	LONG TIME 5544 Amps	< 15.33 Sec.
BUS1C Emergency Feed	BACKUP	XSW1C #13	LONG TIME 5544 Amps	≤ 15.33 Sec.

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- (c) For each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all the circuit breakers of the inoperable type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested.
2. By selecting and functionally testing a representative sample of at least 10% of each type of lower voltage circuit breakers. Circuit breakers selected for functional testing shall be selected on a rotating basis. Testing of these circuit breakers shall consist of injecting a current in excess of the breakers nominal setpoint and measuring the response time. The measured response time will be compared to the manufacturer's data to insure that it is less than or equal to a value specified by the manufacturer. Circuit breakers found inoperable during functional testing shall be restored to OPERABLE status prior to resuming operation. For each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all the circuit breakers of the inoperable type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested.
3. By selecting and functionally testing a representative sample of each type of fuse on a rotating basis. Each representative sample of fuses shall include at least 10% of all fuses of that type. The functional test shall consist of a non-destructive resistance measurement test which demonstrates that the fuse meets its manufacturer's design criteria. Fuses found inoperable during these functional tests shall be replaced with OPERABLE fuses prior to resuming operation. For each fuse found inoperable during these functional tests, an additional representative sample of at least 10% of all fuses of that type shall be functionally tested until no more failures are found or all fuses of that type have been functionally tested.
- b. At least once per 60 months by subjecting each circuit breaker to an inspection and preventive maintenance in accordance with procedures prepared in conjunction with its manufacturer's recommendations.

TABLE 3.3-12

RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION

<u>INSTRUMENT</u>	<u>MINIMUM CHANNELS OPERABLE</u>	<u>ACTION</u>
1. GROSS RADIOACTIVITY MONITORS PROVIDING ALARM AND AUTOMATIC TERMINATION OF RELEASE		
a. Liquid Radwaste Effluent Line - RM-L5 or RM L9	1	31
b. Nuclear (Processed Steam Generator) Blowdown Effluent Line RM-L7 or RM-L9	1	32
c. Steam Generator Blowdown Effluent Line		
1. Unprocessed during Power Operation - RM-L10 or RM-L3	1	32
2. Unprocessed during Startup - RM-L3	1	32
d. Turbine Building Sump Effluent Line - RM-L8	1	33
2. FLOW RATE MEASUREMENT DEVICES*		
a. Liquid Radwaste Effluent Line - Tanks 1 and 2	1/tank	34
b. Penstocks Minimum Flow Interlock**	1	34
c. Nuclear Blowdown Effluent Line	1	34
d. Steam Generator (Unprocessed) Blowdown Effluent Line	1	34
3. TANK LEVEL INDICATING DEVICES		
a. Condensate Storage Tank	1	35

*Flow rate for the monitor RM-L9 is determined by adding flow rates for monitors RM-L5 and RM-L7.

**Minimum dilution flow is assured by an interlock terminating liquid waste releases if minimum dilution flow is not available.

INSTRUMENTATION

RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.3.8 The radioactive liquid effluent monitoring instrumentation channels shown in Table 3.3-12 shall be OPERABLE with their alarm/trip setpoints set to ensure that the limits of Specification 3.11.1.1 are not exceeded. The alarm/trip setpoints of these channels shall be determined in accordance with the OFFSITE DOSE CALCULATION MANUAL (ODCM).

APPLICABILITY: At all times.

ACTION:

- a. With a radioactive liquid effluent monitoring instrumentation channel alarm/trip setpoint less conservative than required by the above specification, immediately suspend the release of radioactive liquid effluents monitored by the affected channel or declare the channel inoperable.
- b. With less than the minimum number of radioactive liquid effluent monitoring instrumentation channels OPERABLE, take the ACTION shown in Table 3.3-12. Additionally if this condition prevails for more than 30 days, in the next semiannual effluent report, explain why this condition was not corrected in a timely manner.
- c. The provisions of Specifications 6.9.1.12.b, 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.3.3.8.1 Each radioactive liquid effluent monitoring instrumentation channel shall be demonstrated OPERABLE by performance of the CHANNEL CHECK, SOURCE CHECK, CHANNEL CALIBRATION and ANALOG CHANNEL OPERATIONAL TEST operations at the frequencies shown in Table 4.3-8.

TABLE 3.3-4 (Continued)

ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION TRIP SETPOINTS

<u>Functional Unit</u>	<u>Total Allowance (TA)</u>	<u>Z</u>	<u>S</u>	<u>Trip Setpoint</u>	<u>Allowable Value</u>
3. CONTAINMENT ISOLATION					
a. Phase "A" Isolation					
1. Manual	NA	NA	NA	NA	NA
2. Safety Injection	See 1 above for all safety injection setpoints and allowable values				
3. Automatic Actuation Logic and Actuation Relays	NA	NA	NA	NA	NA
b. Phase "B" Isolation					
1. Automatic Actuation Logic and Actuation Relays	NA	NA	NA	NA	NA
2. Reactor Building Pressure-High 3	3.0	0.71	1.5	<12.05 psig	<12.31 psig
c. Purge and Exhaust Isolation					
1. Safety Injection	See 1 above for all safety injection setpoints and allowable values				
2. Containment Radioactivity High	NA	NA	NA	*	*
3. Automatic Actuation Logic and Actuation Relays	NA	NA	NA	NA	NA

* Trip setpoints shall be set to ensure that the limits of Specification 3.11.2.1 are not exceeded.

TABLE 3.3-4

ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION TRIP SETPOINTS

<u>Functional Unit</u>	<u>Total Allowance (TA)</u>	<u>Z</u>	<u>S</u>	<u>Trip Setpoint</u>	<u>Allowable Value</u>
1. SAFETY INJECTION, REACTOR TRIP, FEEDWATER ISOLATION, CONTROL ROOM ISOLATION, START DIESEL GENERATORS, CONTAINMENT COOLING FANS AND ESSENTIAL SERVICE WATER.					
a. Manual Initiation	NA	NA	NA	NA	NA
b. Automatic Actuation Logic	NA	NA	NA	NA	NA
c. Reactor Building Pressure--High 1	3.0	0.71	1.5	≤3.6 psig	≤3.86 psig
d. Pressurizer Pressure--Low	13.1	10.71	1.5	≥1850 psig	≥1839 psig
e. Differential Pressure Between Steamlines--High	3.0	0.87	1.5/ 1.5	≤97 psig	≤106 psi
f. Steamline Pressure--Low	20.0	10.71	1.5	≥675 psig	≥635 psig ⁽¹⁾
2. REACTOR BUILDING SPRAY					
a. Manual Initiation	NA	NA	NA	NA	NA
b. Automatic Actuation Logic and Actuation Relays	NA	NA	NA	NA	NA
c. Reactor Building Pressure--High 3 (Phase 'A' isolation aligns spray system discharge valves and NaOH tank suction valves)	3.0	0.71	1.5	≤12.05 psig	≤12.31 psig

(1) Time constants utilized in lead lag controller for steamline pressure-low are as follows
 $\tau_1 \geq 50$ secs. $\tau_2 \leq 5$ secs.

TABLE 3.3-3 (Continued)

ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION

<u>FUNCTIONAL UNIT</u>	<u>TOTAL NO. OF CHANNELS</u>	<u>CHANNELS TO TRIP</u>	<u>MINIMUM CHANNELS OPERABLE</u>	<u>APPLICABLE MODES</u>	<u>ACTION</u>
3. CONTAINMENT ISOLATION					
a. Phase "A" Isolation					
1) Manual	2	1	2	1, 2, 3, 4	18
2) Safety Injection	See 1 above for all safety injection initiating functions and requirements.				
3) Automatic Actuation Logic and Actuation Relays	2	1	2	1, 2, 3, 4	14
b. Phase "B" Isolation					
1) Automatic Actuation Logic and Actuation Relays	2	1	2	1, 2, 3, 4	14
2) Reactor Building Pressure--High-3	4	2	3	1, 2, 3	16
c. Purge and Exhaust Isolation					
1) Safety Injection	See 1 above for all safety injection initiating functions and requirements.				
2) Containment Radio-activity- High	2	1	2	1, 2, 3, 4	17
3) Automatic Actuation Logic and Actuation Relays	2	1	2	1, 2, 3, 4	17

TABLE 3.3-3 (Continued)

ENGINEERED SAFETY FEATURE ACTUATION SYSTEM INSTRUMENTATION

<u>FUNCTIONAL UNIT</u>	<u>TOTAL NO. OF CHANNELS</u>	<u>CHANNELS TO TRIP</u>	<u>MINIMUM CHANNELS OPERABLE</u>	<u>APPLICABLE MODES</u>	<u>ACTION</u>
f. Steam Line Pressure-Low	1 pressure/loop	1 pressure and 2 loops	1 pressure and 2 loops	1, 2, 3 ^{##}	19*
2. REACTOR BUILDING SPRAY					
a. Manual	2 sets - 2 switches/set	1 set	2 sets	1, 2, 3, 4	18
b. Automatic Actuation Logic and Actuation Relays	2	1	2	1, 2, 3, 4	14
c. Reactor Building Pressure--High-3 (Phase 'A' isolation aligns spray system discharge valves and NaOH tank suction valves)	4	2	3	1, 2, 3	16

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-395

VIRGIL C. SUMMER NUCLEAR STATION, UNIT NO. 2

NOTICE OF ISSUANCE OF AMENDMENT TO

FACILITY OPERATING LICENSE NO. NPF-12

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 2 to Facility Operating License No. NPF-12, issued to South Carolina Electric & Gas Company and South Carolina Public Service Authority (the licensees) for the Virgil C. Summer Nuclear Station, Unit No. 1 (the facility) located in Fairfield County, South Carolina. This amendment corrects certain inconsistencies in the Technical Specifications regarding containment radiation monitors and the containment purge and exhaust isolation. The amendment is effective as of its date of issuance.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations. The Commission has made appropriate findings as required by the Act and the Commission's regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5 (d)(4) an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

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ATTACHMENT TO LICENSE AMENDMENT NO. 2

FACILITY OPERATING LICENSE NO. NPF-12

DOCKET NO. 50-395

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of the changes.

Amended
Page

3/4 3-18
3/4 3-26
3/4 3-68
3/4 8-18
3/4 9-9

OFFICE ▶	.....	.....	.....	.....	.....	.....	.....
SURNAME ▶	.....	.....	.....	.....	.....	.....	.....
DATE ▶	.....	.....	.....	.....	.....	.....	.....

For further details with respect to this action, see (1) South Carolina Electric & Gas Company letter, dated August 13, 1982, (2) Amendment No. 2 to Facility Operating License No. NPF-12 with Appendix A Technical Specifications page changes, and (3) the Commission's related safety evaluation.

All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. 20555 and the Fairfield County Library, Garden and Washington Streets, Winnsboro, South Carolina 29180. A copy of Amendment No. 2 may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 27th day of August 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by:
William Kane

William F. Kane, Acting Chief
Licensing Branch No. 1
Division of Licensing

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OFFICE	DL:LB#1	DL:LB#1	OELD				
SURNAME	MR. Brook/y	W Kane	65403100				
DATE	8/25/82	8/25/82	8/25/82				

SAFETY EVALUATION BY THE
OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 2
TO LICENSE NPF-12
SOUTH CAROLINA ELECTRIC & GAS COMPANY
SOUTH CAROLINA PUBLIC SERVICE AUTHORITY

INTRODUCTION

By letter, dated August 13, 1982, the South Carolina Electric & Gas Company (SCE&G) requested changes to correct inconsistencies in three Technical Specifications regarding isolation of the containment purge and exhaust lines on high radiation. In addition, changes were requested to correct typographical errors in two other Technical Specifications.

EVALUATION

Table 3.3-3 specifies the total number of channels, channels to trip, and minimum channels operable for isolating the containment purge and exhaust lines on containment high radiation for Modes 1, 2, 3, and 4. The current Technical Specifications indicate that four channels are available to isolate the purge and exhaust lines for Modes 1, 2, 3, and 4. However, the design includes only two channels, i.e. radiation monitors RM-A2 and RM-A4. Therefore the minimum channels to trip is one since a trip will occur if the setpoint is exceeded on either RM-A2 or RM-A4 and both channels must be operable.

Table 3.3-4 in the current Technical Specifications specifies the trip setpoint and allowable values for containment high radioactivity at twice the background levels. The licensee requested that these values be changed to be consistent with Specification 3.11.2.1.

The licensee requested that a clarification be made to the surveillance requirements of 4.9.8 to require verification that for a high radiation test signal from the reactor building manipulator crane area channels, isolation of the 36-inch purge supply and exhaust valves occurs. This is consistent with the design. The current specification implies that isolation of the 6-inch line would also be required.

The licensee also requested that two typographical errors be corrected. These occur in Table 3.3-12 and Table 3.8-1.

We have reviewed each of the above changes that the licensee has proposed and find them acceptable. These changes are administrative in nature and are consistent with the design that was reviewed and approved by the staff during the operating license stage.

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ENVIRONMENTAL CONSIDERATION

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR Section 51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

CONCLUSION

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

DATE: **AUG 27 1982**

*See previous yellow.

OFFICE ▶	DL:LB#1*	DL:LB#1	DL:LB#1				
SURNAME ▶	MRushbrook, y.t.	W Kane	J Youngblood				
DATE ▶	8/ /82	8/27/82	8/27/82				

We have reviewed each of the changes that the licensee has proposed and find them acceptable. These changes are administrative in nature and are consistent with the design that was reviewed and approved by the staff during the operating license stage.

ENVIRONMENTAL CONSIDERATION

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR Section 51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

CONCLUSION

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

DATE:

OFFICE	DL:LB#1	DL:LB#1	DL:LB#1				
SURNAME	Rushbrook/yt	Wkane	B. J. Youngblood				
DATE	8/5/82	8/25/82	8/27/82				

SAFETY EVALUATION BY THE
OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 2
TO LICENSE NPF-12
SOUTH CAROLINA ELECTRIC & GAS COMPANY
SOUTH CAROLINA PUBLIC SERVICE AUTHORITY

INTRODUCTION

By letter, dated August 13, 1982, the South Carolina Electric & Gas Company (SCE&G) requested changes to correct inconsistencies in three Technical Specifications regarding isolation of the containment purge and exhaust lines on high radiation. In addition, changes were requested to correct typographical errors in two other Technical Specifications.

EVALUATION

Table 3.3-3 specifies the total number of channels, channels to trip, and minimum channels operable for isolating the containment purge and exhaust lines on containment high radiation for Modes 1, 2, 3, and 4. The current Technical Specifications indicate that four channels are available to isolate the purge and exhaust lines for Modes 1, 2, 3, and 4. However, the design includes only two channels, i.e. radiation monitors RM-A2 and RM-A4. Therefore the minimum channels to trip is one since a trip will occur if the setpoint is exceeded on either RM-A2 or RM-A4 and both channels must be operable. The licensee also requested that the Technical Specifications be changed to permit entry into another operational mode with less than the minimum number of channels operable, provided the purge and exhaust lines are isolated. The licensee stated that this is consistent with the intent of Action 17 which allows operation to continue provided that the containment purge and exhaust valves are maintained closed. Table 3.3-4 in the current Technical Specifications specifies the trip setpoint and allowable values for containment high radioactivity at twice the background levels. The licensee requested that these values be changed to be consistent with Specification 3.11.2.1.

The licensee requested that a clarification be made to the surveillance requirements of 4.9.8 to require verification that for a high radiation test signal from the reactor building manipulator crane area channels, isolation of the 36-inch purge supply and exhaust valves occurs. This is consistent with the design. The current specification implies that isolation of the 6-inch line would also be required.

The licensee also requested that two typographical errors be corrected. These occur in Table 3.3-12 and Table 3.8-1.

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